PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY PCT SIM & MCBURNEY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY 6th Floor 330 University Avenue TORONTO, Ontario (PCT Rule 43bis.1) Canada, M5G 1R7 23 July 2007 (23-07-2007) Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 9577-60 KAM Priority date (day/month/year) International filing date (day/month/year) 03 April 2006 (03-04-2006) International application No. 03 April 2007 (03-04-2007) PCT/CA2007/000550 International Patent Classification (IPC) or both national classification and IPC IPC: A61K 9/36 (2006.01), A61J 3/00 (2006.01), A61K 47/38 (2006.01), A61K 9/16 (2006.01), A61K 9/22 (2006.01), A61K 9/62 (2006.01) Applicant ODIDI, ISA ET AL 1. This opinion contains indications relating to the following items: Basis of the opinion [X] Box No. I **Priority** [] Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability [X] Box No. III Lack of unity of invention [] Box No. IV Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial [X] Box No. V applicability, citations and explanations supporting such statement Certain documents cited Box No. VI Certain defects in the international application [X] Box No. VII Certain observations on the international application [X] Box No. VIII If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("PEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen 2. FURTHER ACTION PEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Date of completion of this opinion Name and mailing address of the ISA/CA Nasreddine Slougui 819-956-6132 Canadian Intellectual Property Office 11 July 2007 (11-07-2007) Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street

Gatineau, Quebec KIA 0C9

International application No. PCT/CA2007/000550

	INTERNATIONAL SEARCHING NOTICE
Box No. I	Basis of this opinion
1. With regard	to the language, this opinion has been established on the basis of:
[X] the in	nternational application in the language in which it was filed , which is the language of a , which is the language of a slation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
to th	opinion has been established taking into account the rectification of an obvious mistake authorized by or notified as Authority under Rule 91 (Rule 43bis.1(a)) d to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed this opinion has been established on the basis of:
[] b. formate [] c. time of [] []	a sequence listing table(s) related to the sequence listing of material on paper in electronic form f filing/furnishing contained in the international application as filed. filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search. addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has
5. Additions	e application as filed of does not go beyond and p

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		- by heart of oninion with regard to nove	hty, inventive step and industrial applicability			
x No. 111	Non-est	laboration appears to be novel, to inv	olve an inventive step (to be non obvious), or to be industrially			
e question plicable h	ns whether the o ave not been ex	namined in respect of :				
r 1	the entire inter	national application				
(X)	claim Nos.	52 and 54-56				
			1 - Cillowing			
because	8 :	ational application, or the said claim Nos.	52 and 54-56 relate to the following	i		
(X)			ch (specify):			
	subject matter which does not require an international search (specify): subject matter which does not require an international search (specify): Claims 52 and 54-56 are directed to a method for treatment of the human or animal body by surgery or therapy, are not required to be searched nor is a written opinion required by this Authority. Regardless, this Authority has established a written opinion to be searched nor is a written opinion required by this Authority. Regardless, this Authority has established a written opinion to be searched on the alleged effect or purpose/use of the product defined in claims 52 and 54-56.					
[]	the description	n, claims or drawings (indicate particular el	ements below) or said claim Nos.			
	are so unclear	that no meaningful opinion could be formed				
[]	the claims, or by the descrip	said claims Nos. otion that no meaningful opinion could be fo	are so inadequately supportented (specify):	ed		
[]	a meaningful	nal search report has been established for sai	quence risting, the approximation of the Administrative	limit		
	Instruc to it.	tions, and such listing was not available to t	and an analysis and accorded for in Annex C of the Administ	rativ		
	Instruc	tions, and such listing was not available to	ying with the standard provided for a form and manner accepted in the international Searching Authority in a form and manner accepting of a sequence listing in response to an invitation under			
	[] pay the	3ter.1(a) or (b).	المناف المراجع	n tha		
.[]	prescribed till C-bis of the	me limit, furnish such tables in electronic id Administrative Instructions, and such tables	bles related to the sequence listings; the applicant did not, within rm complying with the technical requirements provided for in A were not available to the International Searching Authority in a	IOIL		
		esed to the nucleotide and/or amino acid see	quence listing, if in electronic form only, do not comply with the	;		
r i	the tables rel	ated to the nucleotide and or annual	Particular Indiana			
Ł i	technical req	nuirements provided for in Annex C-bis of the	ne Administrative instructions.			

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Statement Novelty (N	-trv (N)	Claims	None	YES	
Move	ary (c·)	Claims	1-51, 53, 57-74	NO YES	
Inve	ntive step (IS)	Claims		NO	
				YES	
Indu	astrial applicability (IA)	Claims Claims		МО	

2. Citations and explanations:

Cited Documents:

D1: US 2006/0003001 (Devane et al), 05 January 2006 D2: US 5004614 (Forum Chemicals Ltd), 02 April 1991 D3: US 5000962 (Schering Corporation) 19 March 1991 D4: EP157695 (Forest Laboratories Inc), 09 October 1985

D5: CA2286684 (Odidi Isa et al), 29 October 1998

Novelty step:

The cited D1-D3 disclose a controlled release delivery device with a core comprising an active ingredient which is coated with a polymeric material comprising different ratios of one or more pharmaceutically water- insoluble polymer, such as ethylcellulose, to one or more pharmaceutically acceptable water-soluble polymer, such as hydroxypropylmethylcellulose. Particularly, in D1, it is disclosed that the thickness of the polymer in the formulations, the amounts and types of polymers, and the ratio of water-soluble polymers to water-insoluble polymers are generally selected to achieve a desired release profile of the drug. The organosolvent and the antitacking agent are considered as excipients disclosed in these cited documents. Furthermore, processes of producing these controlled release delivery device as well their uses in different therapies are also disclosed. Therefore, the alleged invention contained in the instant claims is not novel and thus, a novelty step cannot be acknowledged for the claims 1-51, 53 and 57-74 according to Article 33(2) of the PCT because they include subject matter described in D1-D3.

Inventive step:

Claims 1-51, 53 and 57-74 do not meet the criteria set for obviousness by Article 33(3) of the PCT as the claims lack novelty, they also lack an inventive step.

Moreover, if the novelty objection is overcome, then, these claims will lack an inventive step with regards to D4 or D5 in view of D1-D3. D4 discloses a controlled release tablet of acid ascorbic comprising a carrier comprised of ethylcellulose and hydroxypropylmethylcellulose in a ratio approximately of 50/50 or 1/1 and excipients. D5 discloses a controlled release pharmaceutically active substance comprising a pharmaceutically

......continued on Supplemental Box

International application No.

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Item 1: Claims 1-74 do not comply with Article 6. 4(c) of PCT in that all dependent claims referring back to a single previous claim, and all dependent claims referring back to several previous claims, shall be grouped together to the extent and in the most practical way possible.

Item 2: Claims 12 and 60 do not comply with Article 6 of the PCT, the expression "and or" should be "and/or"

Item 3: Claim 57 do not comply with Article 6 of the PCT, the second "the" in line 3 of the claim should be removed.

International application No

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- Item 1: Claims 1, 2 and 21 do not comply with Article 6 of the PCT in that there is a broad statement at the point c alleged invention. The statement is so broad that it embraces all possible means without qualification for solving the problem facing the inventor, and is in effect no more than a re-statement of the problem or the desired result.
- Item 2: Claim 2 is unclear and does not comply with Article 6 of the PCT. A claim containing a negative expression such as "does not comprise" is objectionable in that claims should generally set forth what the alleged invention is or does, and not what it isn't or does not do.
- Item 3: Claims 32 and 59 are indefinite and does not comply with Article 6 of the PCT. The inclusion of 110% causes ambiguity.
- Item 4: Claims 54-57 are indefinite and does not comply with Article 6 of the PCT. The inclusion of "suitable" causes ambiguity.
- Item 5: Reference to the name of "Carbomer" on page 23; "Aspirin" on page 28; "Cabosil", "Syloid", "Compritol", "Stear-O-Wet" and "Myvatex TL" on page 37 and "Carbowax" on page 38; should be identified as trademarks according to Article 5 of the PCT.
- Item 6: The description does not comply with the Article 5 of the PCT as the ratio "110%" described on page 45 line 23 and page 46, line 30 leads to an ambiguity and a lack of clarity.
- Item 7: The description does not comply with Article 5 of the PCT. All documents referred to in the description an application must be available to the public. Reference to the document on page(s) 1, line(s) 2 must be delete or replaced by its corresponding patent number or publication number.
- Item 8: The drawing of Figure 1, do not comply with Article 7(1) of the PCT. The drawing does not adequately provide for the illustration of the alleged invention. It should be specified that this controlled profile correspond to the drug methylphenidate, described in the example 2. Also, on one of the axis of the drawing, the expressic "% dissolvec" should be "% dissolved".

International application No.

Supplemental Box

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In case the space in any of the preceding boxes is not sufficient.

Continuation of Box V

active substance, a first polymer of ethylcellulose, a second polymer component comprising a mixture of hydroxyethylcellulose and hydroxypropylmethylcellulose. It would have been obvious for a person skilled in the art to combine the teachings of D4 or D5 in view of of D1, D2 or D3 or in view of the sate of art to reach the present contemplated controlled release delivery device for controlled reelase of an active ingredient comprising a core particle with a polymeric coat comprising a mixture of a water soluble gel forming polymer and a water insoluble polymer in a dry weight ratio of from about 20:80 to about 50:50. Varying the ratios of the water-soluble and the water-insoluble polymers cannot constitute a basis for patentability unless an outstanding result is achieved. Thus, claims 1-51, 53 and 57-74 appear to be obvious in the light of the cited documents in this report and therefore do not comply with the criteria set by Article 33(3) of the PCT for inventive step.

Industrial Applicability:

Claims 1-74 appear to meet the criteria of industrial applicability according to Article 33(4) of PCT.